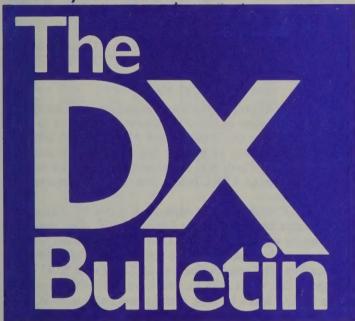
Ogasawara - JD1 Ken-ichi Matsumoto JG6CVO will be /JD1 from Ogasawara (AS-31) April 4-28. Operation

will be 160-6 meters, CW, SSB, and RTTY, with emphasis on RTTY and 6 meters. On 6 meters, check 50.130 MHz. If his beacon starts with "VVV," he's not in the shack. If it starts with "CQ CQ CQ," he's available, on 6 or some other band. QSL home call: 511 Funajima, Ueki-machi, Kamoto, Kumamoto 861-02, Japan, or via the JARL bureau.

Antigua - V2 John Vugteveen W7KNT will operate as V29OA (NA-100) March 7-20, 75-6 meters, mostly SSB, with CW on request. He'll concentrate on 75 and 6 meters. He may go on to Cayman Is. as ZF2KH (NA-16) Mar. 21-28. QSL home call.

Western Sahara - SØ Members of the Lynx DX Group will try to get on as SØ1LNDX Mar. 18-23, CW, SSB, and RTTY, all bands. QSL EA2JG.

Edited by Chod Harris VP2ML



America's Premier Weekly Amateur Radio Publication

Antarctica - Y9 Manfred Gronak Y21RO will operate from the GDR Antarctic research base "Georg Forster" as Y96ANT for one year, starting in April. Watch 3503, 7003, 14010, 21010, and 28010 kHz on CW and 3790, 7045, 14190/290, 21190/290, and 28490 kHz on SSB. QSL home call: Koellnische Str. 22, Berlin 1190 GDR, or via the Y2 bureau.

Reserve Your Island - ARRL SSB Test

- P46V (SA-36) will be active as a single-op, all-band entry by Carl AI6V. QSL home call.
- XE2MX is another S/A entry, by Mike Baker KA6SAR. OSL home call.
- VP2V is a multi-operator entry by W8QKP, N8HLK, KE8KX, N8HKQ, and VE3KOD. QSL W8QKP. 40-10 meters, with some CW after the test.

Shortly Noted

■ VK9LE on Lord Howe Island (OC-04) will be active March 25-April 8, by VK3OT. QSL home call.

■ N6AMG's Pacific 6-meter operation (see Issue 526) should be QSLed via AE6H, not AA6H.

■ T79A/19 is the special call celebrating the 10th anniversary of the ARRSM, April 21-22. An award for working 10 San Marino stations April 15, 1990-April 14, 1991 will be available for \$10 from the ARRSM, Box 77, San Marino 47031. You can work the same station on different bands to make up the 10 QSOs. (Thanks DX News Sheet.)

■ EK9FWW is the special call of the UZ9FWW club March 9-31, commemorating the 25th anniversary of the landing of the Voshod 2 spacecraft. QSL Mike Nabokin, Lenin Ave. 3-

23, Berezniki, Perm Oblast 618404, USSR.

■ UMØMO is very active on 40 meters. Try 02-0230Z short path, and 12-1300Z long path, around 7005 kHz. QSL to Serge Pasko, P.O.Box 1870, Frunze, Kirghiz 720000 USSR.

■ CF25A was VE3XN commemorating the 25th anniversary of the Canadian flag. QSL VE3XN.

■ ZB2/F2JD will be active again in early April.

■ FVØNDX is the 1990 contest and island DXpedition call of Les Nouvelles DX newsletter. QSL F6AJA.

■ WØMLY/RR will be active July 7-8 on 7250, 14250, 21250, and 28350 kHz on SSB, and 25 kHz up on CW, celebrating the last steam locomotive to be built in the world. QSL with SASE to Box 7, Rippey IA 50235 for special card.

■ SSB Net check-ins: 7159 kHz: JW5NM KH8/SM7PKK; 14160: TZ6PS HH2MC ST4/WZ6C TF3CM; 14222: P29PL VK9TR A35SA TJ1BW ZS9S WZ4C/ST4 YJ8AB ZK1CX 3D2AG TL8JL C21NI TL8WD; 14227: UMØMO VQ9AB P29BT FH8CB VK9TR; 14256: TJ1MR 9X5NH 9L1EY 5N2YBC JT1BV TU2WE CEØMTY C56/6W6JX VP8BUB; 21335: TR8JC 5Z4FM N3CRH/TJ XT2BX 3B9FR AP2JZB SV9AHZ Z21JE 5V7DP D2/LU6ELF.

■ RTTY report: Some active stations: BV4VB 14084 0845Z; ZD8BOB 21086 2200Z; PZ1BS 14095 0130Z; TU2BB 14091 0645Z; 4K2OT Franz Josef Land 14090 0840Z; TA3B 21088 1145Z; UG7GWH 21083 1410Z; JX9CAA 14083 1730Z; EA9JV 14084 1830Z; VP8BFH 14095 0320Z; SV5ADM 28092 0845Z; BY1QH 21090 0908Z; 5Z4TA 21080 0930Z; V85GA 14074 ARQ 0940Z; D44BC 14087 0315Z; AH9AC 14093 0420Z; VKØJR 14079 ARQ 0911Z; FK8BK 14074 0920Z; 5V7DP 28090 1545Z; J28TY 14092 1930Z; H44SH 21083 1015Z; TZ6VV 21091 1840Z; FR5ZD 14074 FEC 0430Z; A41JR 14078 1545Z; 9K2EC 14074 ARQ 0000Z; and RL8PYL 14087 0315Z.

■ Islands On The Air: FO5BI will be active from the Acteon Group (OC-113) through March, a New One for IOTA. Marek YJ8M plans to operate as 3D2YA from Yasawa Is. (OC-114) this weekend, another New One. YB5NOF will try to operate from the Mentawi Archipelago (OC-??) this month. Some active stations: XF1C Cedros Is. (NA-17) 28013 1500Z; IC8SDL Capri Is. (EU-31) 28390 1600Z; PP5SZ Santa Catarina Is. (SA-26) 14226 0000z; 4K4BDH (AS-54) 14028 0420Z; 4K4AB Dickson Is. (AS-05) 14023 1920Z.

Propagation

Forecast and Historical Data

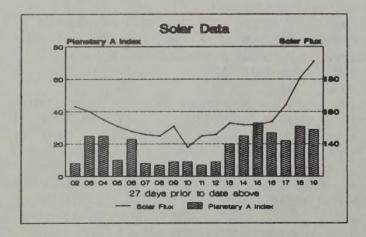
Day Forecast	27 Days Before	55 Days Before			
March 1990	Date Flux A K	Date Flux A K			
02 Above Normal	02/03 163 05/08 2	01/06 187 04/07 1-			
03 Low Normal	02/04 160 23/25 5	01/07 183 05/06 1			
04 Low Normal	02/05 155 21/25 3	01/08 177 17/10 5			
05 High Normal	02/06 151 09/10 1	01/09 165 13/12 2			
06 Low Normal	02/07 148 25/23 4	01/10 172 14/16 2			
07 Above Normal	02/08 146 09/08 2	01/11 177 17/20 3			
08 Above Normal	02/09 145 06/07 0	01/12 173 11/15 1			
09 Above Normal	02/10 151 06/09 2	01/13 173 07/08 1			
10 High Normal	02/11 138 08/09 2	01/14 173 05/08 1			
11 Above Normal	02/12 145 05/07 0	01/15 189 08/08 1			
12 High Normal	02/13 146 07/09 3	01/16 196 06/07 2			
Propagation Watch					

After a couple of weeks of unexpectedly low solar activity, solar flux levels rebounded at the end of February, up to 232 on Feb. 25. Unfortunately, the geomagnetic field was quite active, which cut into low-band and long-haul propagation.

As February closed, the sun was covered with sunspots, in sharp contrast to the nearly spotless sun of a couple of weeks ago. However, most of the sunspot regions are small and magnetically simple, and have produced few flares. Thus we have a sunspot count well above 300, while the flux level is in the low 200s.

If we can have any more confidence in the 27.5 day solar rotation cycle, we should see a gradual decline in solar activity over the next week, with solar flux building back up over 200 later in March. Long-haul and low-band conditions will depend on a decrease in geomagnetic activity, which is expected. The StratWarm condition has ended, which should improve polar paths when the A index drops into single digits. (StratWarm is a seasonal warming of the stratosphere over the polar regions, causing vertical mixing, and combination of ions into neutral atoms. The resulting lower level of ionization lowers the maximum useable frequency (MUF) and increases absorption on the low bands, on polar paths.)

The approach of the vernal equinox (March 20) provides another reason to expect improving band conditions. If the geomagnetic field cooperates, we should see good conditions on all bands 80-10 meters, with one or more bands open to an interesting part of the world at any hour of the day or night. All we need is a little bit of help from the sun.



	Regulars	3	
Bahrain	A92BE	3793	0220Z
Byelorussia	UC1AWZ	3502	0230Z
Easter Island	CEØFFD	28010	2300Z
Franz Josef Land	4K2OIL	14004	0230Z
- Gambia	C53GB	28480	1230Z
• Guam	KH2D	7005	1200Z
 Hong Kong 	VS6VO	3798	1430Z
• Kenya	5Z4FO	21240	1900Z Sunday
Kirghizia	UMØMO	7007	12-1300Z
Liberia	EL7X	21010	2245Z
Mauritius	3B8CF	14034	0315Z
 Micronesia 	V63AO	28507	2100Z
 Mongolia 	JT1BS	3502	1510Z
 Mongolia 	JT1BS	14013	0100Z
 Pakistan 	AP2TN	14030	02-0300Z
Pakistan	AP2TN	7007	0030Z
 Pitcairn Island 	VR6JR	28500	1900Z
 Sierra Leone 	9L1US	21300	20-2300Z
Sierra Leone	9L1US	28493	2245Z
 South Orkneys 	LU1ZA	21012	23-0100Z
Sri Lanka	4S7WP	20M CV	V 12-1300Z
Sri Lanka	4S7WP	7001	2240Z
• Vietnam	3W3RR	14005	1500Z
■ Vietnam	3W3RR	3501	1500Z
■ Walvis Bay	ZS9A	28610	15-1600Z Sun.
- Zaire	9Q5TE	14220	0400Z

DXCC Notes

■ The ARRL Awards Committee has unanimously accepted the recommendation of the DX Advisory Committee to add Walvis Bay ZS9 to the DXCC country list. Contacts with stations in Walvis Bay on or after Sept. 1, 1977, will count for the new country. Cards may be submitted on or after June 1, 1990. Cards sent to ARRL before June 1 will be returned without action.

■ The DXCC desk now has application forms for adding 12 and 17 meter endorsements to 5-band DXCC. You must have already earned 5-band DXCC to qualify for the endorsement. You will need one application form per band, so when you send your business-sized SASE with \$0.45 postage to the ARRL, ask for two forms MCS-255.

■ The DXCC desk's backlog is still about three months. Plan your submissions accordingly.

Notes From All Over

■ Rich Assarabowski K1CC is the new chairman of the ARRL Contest Advisory Committee (CAC). The most important topic presently under consideration at the CAC is the format for computer-disc contest submissions. Send Rich a business-sized SASE with \$0.65 postage for a copy of the formats under consideration. Address is 306 Vernon Avenue, Vernon CT 06066, an address some long-time The DX Bulletin subscribers might recognize.

■ The keynote speaker at the SouthWest Ohio DX Association's DX Dinner at Dayton is Jacky F2CW. Jacky was a member of the 3Y5B Bouvet team, and has operated from many corners of the world. Tickets for the Friday, April 27 dinner are \$23. Send your check made out to SWODXA and an SASE for return of your tickets to Scott Lehman N9AG, P.O.Box 803, Greenville OH 45331.

$B \cdot A \cdot N \cdot D \cdot P \cdot A \cdot S \cdot S$

Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet. All "portable" calls listed with country of operation first, regardless of format used on the air.

	IM	ØMO 7001	2311 14 FL	UL7MO 1401	18 1502 19 ID	VR6JR 2131	5 0158 15 IN
		ØMO * 7008	1205 20 MA	UL7RER 1400		Z21HD 2134	
RTTY		8MAA 7004	0156 13 FL	UL7VBP 1401		ZD7DP 2129	9 2125 16 MI
4K2OIL 14086 010	4 40 04	5ZM * 7005	1500 15 ID	UMØMO 1403	30 0422 13 WA	12 Meters	
9Q5BG 28089 150	0 44 011	9XWH 7002	0040 20 IL	V73AZ 1400	02 1328 16 IL		E 140E 14 CT
BV4VB 14086 154	0 23 CA V73		0805 18 MD	VU2TTC * 1403		5B4OG 2490	
C56/ 14089 042	5 18 OH V73		0705 15 NH	YK1AS 1403		EA6ZY 2490	
6W6JX	V73		1305 24 FL	Z21CA 1405		J28KY 2490	
CEØZIG 14085 042		2EZD 7004	2305 20 FL	ZD7KM 1402		LY2BR 2491	
EL2AB 14089 031		2TEC 7005	1250 13 CA	ZD8BOB 1400		OY1R 2490	
FR5ZD 14091 041		3CC 7002	0639 14 MI			PZ1DV 2490	
	1 25 CA		0000 11 1111	20 Meter SS		TU2QQ 2493	
	2 21 CA 30	Meters		3B8AD * 1429		UA9CBO 2489	
	0 16 OH 3B8		0245 19 WI	5U7NU 1423		10 Meter CV	V
		OG 10107	0326 24 FL	8Q7JC 1422		3ADØBK 2801	
	0 20 CA RTS	5UQ 10104	0526 23 FL	9L1US 1421	19 0038 18 DE	3W3RR 2800	
	5 20 CA UD	6DKW 10106	0221 24 FL	9Q5TE 1421	19 0415 20 CA	4U1ITU 2805	
	0 17 CA V31	IBB 10105	0430 14 CA	9X5NH 1426	55 0115 15 FL	BV2DA 2801	
	5 20 CA VP2	2EXX 10101	2200 19 FL	A41KJ * 1420	01 1257 10 OH		
	0 13 PA YN,		0404 19 PA	A45ZP 1418	32 0400 11 MI	CEØFFD 2800	
	U IO IA	MØOIG 10108	2225 23 FL	AP2ASA 1422		EA6ZY 2802	
	0 10 011			BY1PK 1418		EL2CX 2801	
160 Meters		Meter CW		C56/ 1422		HZ1AB 2800	
	0 23 FL 3A2		2038 25 MA	GØCBY	3003 10 1111	OX3XR 2802	
	6 11 WA 3B8	3CF 14033	0313 13 UT	HH2LB 1420	00 0430 18 CA	TJ1RP 2805	
	6 13 WA 3C	1EA 14025	0721 15 FL	HKØTCN 1418		UD7ØDFF 2800	05 1519 24 FL
	0 19 WA 3W	3RR 14004	1504 22 MT	P29SC 1420		V73AX 2802	
	4 7 WA 4K2	2OIL 14004	0225 13 CA			VQ9QM 2802	26 1259 12 GA
	2 15 FL 4K3	3BB 14008	1320 12 NH	TZ6VV 1418		VU2SU 2800	14 1313 13 RI
		BA 14011	1544 22 ID	UG6GAW 1425		10 Meter SS	D
80 Meters	20.0	QQ 14011	1617 19 BC	UI8ZAA 1415			
3W3RR 3501 150	E 40 04	EA 14007	0025 23 FL	VK9ND 1421		5N6YBC 2840	
5H3TW 3507 154	O AE SAIA	WP 14007	0052 22 FL	ZS8MI 1424		5U7NU 2853	
6W6JX 3503 054		WP * 14020	1245 20 RI	17 Meter CW	V	5Z4RT 2847	
	- 10 -	SKO 14015	1942 11 NH	CEØFFD 1809		7X2DS 2845	
	5 13 CA 7X3		0707 12 UT	EA6QK 1807		9J2BO 2847	77 1810 15 MD
	0 44 1111	7JC * 14006	0240 12 CA			9L1US 2846	66 1220 18 NJ
	- 1- 01			17 Meter SS	В	9L1US 2849	94 2244 15 MD
	E 44 AUL	2BO 14029	0617 12 UT	UL7JC 1813	39 1407 18 OH	A43DX 2851	10 1245 22 NJ
		2AX 14031	1340 8 GA	15 Meter CW	/	A45ZP 2857	78 1300 22 NJ
	0 45 51	2CW 14031	1154 9 PA			C53GB 2849	93 1235 18 NJ
			0135 20 IL	3C1EA 2102		EA9IE 2852	
	4 44 00	IJV * 14009	1416 9 MI	3W3RR 2100		EL2MR 2849	
	1 14 SC A43	3DX 14012	0030 33 MAA	4K2OT 2102	22 0444 44 00 1		
			0038 23 MA				
	5 13 NB AP2	2MC 14030	0315 9 PA	5Z4FO 2104	40 2021 25 MA	FOØIGS 2839	97 1811 18 IL
PZ1DV 3509 033	5 13 NB AP2 8 15 WA AP2				40 2021 25 MA	FOØIGS 2839 H44SH 2859	97 1811 18 IL 57 0002 10 MI
PZ1DV 3509 033 UA9UCO 3503 013	5 13 NB AP2 8 15 WA AP2 0 15 NH BY7	2MC 14030 2TN 14028 7KT 14006	0315 9 PA	5Z4FO 2104	40 2021 25 MA 32 2303 6 FL	FOØIGS 2839 H44SH 2859 HZ1AB 2859	97 1811 18 IL 57 0002 10 MI 55 1340 22 NJ
PZ1DV 3509 033 UA9UCO 3503 013 UC1AWZ 3501 023	5 13 NB AP2 8 15 WA AP2 0 15 NH BY7 0 15 FL BZ	2MC 14030 2TN 14028	0315 9 PA 0207 13 FL	5Z4FO 2104 8Q7JC 2103	40 2021 25 MA 32 2303 6 FL 26 0020 14 PA	FOØIGS 2839 H44SH 2859 HZ1AB 2859 SU1AL 2864	97 1811 18 IL 57 0002 10 MI 55 1340 22 NJ 40 1310 18 NJ
PZ1DV 3509 033 UA9UCO 3503 013 UC1AWZ 3501 023 V73AS 3503 123	5 13 NB	2MC 14030 2TN 14028 7KT 14006	0315 9 PA 0207 13 FL 1238 23 FL	5Z4FO 2104 8Q7JC 2103 9L1CM 2102	40 2021 25 MA 32 2303 6 FL 26 0020 14 PA 24 2321 23 MA	FOØIGS 2839 H44SH 2859 HZ1AB 2859 SU1AL 2864 SV5TS 2850	97 1811 18 IL 57 0002 10 MI 55 1340 22 NJ 40 1310 18 NJ 31 0200 22 NJ
PZ1DV 3509 033 UA9UCO 3503 013 UC1AWZ 3501 023 V73AS 3503 123	5 13 NB AP2 8 15 WA AP2 0 15 NH BY7 0 15 FL BZ	2MC 14030 2TN 14028 7KT 14006 1DX 14030 25A 14008	0315 9 PA 0207 13 FL 1238 23 FL 0117 9 NH	5Z4FO 2104 8Q7JC 2103 9L1CM 2102 9L1US 2102	40 2021 25 MA 32 2303 6 FL 26 0020 14 PA 24 2321 23 MA 26 0201 13 RI	FOØIGS 2839 H44SH 2859 HZ1AB 2859 SU1AL 2864 SV5TS 2850 T3ØJH 2850	97 1811 18 IL 57 0002 10 MI 55 1340 22 NJ 40 1310 18 NJ 31 0200 22 NJ 07 0045 22 MA
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PZ1DV 3509 033 UA9UCO 3503 013 UC1AWZ 3501 023 V73AS 3503 123 XF1C 3501 015 75 Meters	5 13 NB 8 15 WA 0 15 NH 0 15 FL 8 14 SC 7 20 FL EL2	2MC 14030 2TN 14028 7KT 14006 1DX 14030 25A 14008 ØM 14028 2CX 14033	0315 9 PA 0207 13 FL 1238 23 FL 0117 9 NH 1255 23 FL 0243 20 FL 0251 18 IL	5Z4FO 2104 8Q7JC 2103 9L1CM 2102 9L1US 2102 BY4RB 2102 EL7X 2101 LU1ZA 2101	40 2021 25 MA 32 2303 6 FL 26 0020 14 PA 24 2321 23 MA 26 0201 13 RI 10 2246 12 FL 12 2305 13 CO	FOØIGS 2839 H44SH 2859 HZ1AB 2859 SU1AL 2864 SV5TS 2850 T3ØJH 2850 TA1AL 2850 TA5C 2850	97 1811 18 IL 97 0002 10 MI 95 1340 22 NJ 40 1310 18 NJ 91 0200 22 NJ 90 0045 22 MA 92 1320 22 NJ 93 1406 12 MI
PZ1DV 3509 033 UA9UCO 3503 013 UC1AWZ 3501 023 V73AS 3503 123 XF1C 3501 015 75 Meters A92BE 3795 022	5 13 NB	2MC 14030 2TN 14028 7KT 14006 1DX 14030 25A 14008 ØM 14028 2CX 14033 7X 14014	0315 9 PA 0207 13 FL 1238 23 FL 0117 9 NH 1255 23 FL 0243 20 FL	5Z4FO 2104 8Q7JC 2103 9L1CM 2102 9L1US 2102 BY4RB 2102 EL7X 2101 LU1ZA 2101 SV9BAI 2101	40 2021 25 MA 32 2303 6 FL 26 0020 14 PA 24 2321 23 MA 26 0201 13 RI 10 2246 12 FL 12 2305 13 CO 19 1830 11 NH	FOØIGS 2839 H44SH 2859 HZ1AB 2859 SU1AL 2864 SV5TS 2850 T3ØJH 2850 TA1AL 2850 TA5C 2850 TA5L 2850	97 1811 18 IL 97 0002 10 MI 95 1340 22 NJ 40 1310 18 NJ 91 0200 22 NJ 97 0045 22 MA 92 1320 22 NJ 93 1406 12 MI 96 1250 18 NJ
PZ1DV 3509 033 UA9UCO 3503 013 UC1AWZ 3501 023 V73AS 3503 123 XF1C 3501 015 75 Meters A92BE 3795 022 EA9IE 3794 053	5 13 NB	2MC 14030 2TN 14028 7KT 14006 1DX 14030 25A 14008 ØM 14028 2CX 14033 7X 14014 5DD 14020	0315 9 PA 0207 13 FL 1238 23 FL 0117 9 NH 1255 23 FL 0243 20 FL 0251 18 IL 2301 12 MT 0340 8 UT	5Z4FO 2104 8Q7JC 2103 9L1CM 2102 9L1US 2102 BY4RB 2102 EL7X 2101 LU1ZA 2101 SV9BAI 2101 TL8PS 2101	40 2021 25 MA 32 2303 6 FL 26 0020 14 PA 24 2321 23 MA 26 0201 13 RI 10 2246 12 FL 12 2305 13 CO 19 1830 11 NH 14 2117 11 NH	FOØIGS 2839 H44SH 2859 HZ1AB 2859 SU1AL 2864 SV5TS 2850 T3ØJH 2850 TA1AL 2850 TA5C 2850 TA5L 2850 TK5EP 2850	97 1811 18 IL 97 0002 10 MI 95 1340 22 NJ 96 1310 18 NJ 97 0045 22 MA 92 1320 22 NJ 93 1406 12 MI 90 1250 18 NJ 91 1341 11 OH
PZ1DV 3509 033 UA9UCO 3503 013 UC1AWZ 3501 023 V73AS 3503 123 XF1C 3501 015 75 Meters A92BE 3795 022 EA9IE 3794 053 J6LQC 3799 021	5 13 NB	2MC 14030 2TN 14028 7KT 14006 1DX 14030 25A 14008 ØM 14028 2CX 14033 7X 14014 5DD 14020 4/ 14003	0315 9 PA 0207 13 FL 1238 23 FL 0117 9 NH 1255 23 FL 0243 20 FL 0251 18 IL 2301 12 MT	5Z4FO 2104 8Q7JC 2103 9L1CM 2102 9L1US 2102 BY4RB 2102 EL7X 2101 LU1ZA 2101 SV9BAI 2101 TL8PS 2101 UI8GBK 2103	40 2021 25 MA 32 2303 6 FL 26 0020 14 PA 24 2321 23 MA 26 0201 13 RI 10 2246 12 FL 12 2305 13 CO 19 1830 11 NH 14 2117 11 NH 35 0250 14 CA	FOØIGS 2839 H44SH 2859 HZ1AB 2859 SU1AL 2864 SV5TS 2850 T3ØJH 2850 TA1AL 2850 TA5C 2850 TA5L 2850 TK5EP 2850 TU2QQ 2850	97 1811 18 IL 97 0002 10 MI 95 1340 22 NJ 96 1310 18 NJ 97 0045 22 MA 97 0045 22 MA 98 1320 22 NJ 98 1406 12 MI 99 1341 11 OH 10 1651 14 CA
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PZ1DV 3509 033 UA9UCO 3503 013 UC1AWZ 3501 023 V73AS 3503 123 XF1C 3501 015 75 Meters A92BE 3795 022 EA9IE 3794 053 J6LQC 3799 021 OH5SM * 3798 142 P29FS 3795 114 TL8WD 3797 233 TU2UI 3788 065 VS6VO 3798 143 ZS1DM 3789 043 40 Meters 3C1EA 7021 231 4K2OIL 7001 033 4K2OT 7002 141 4S7WP 7001 223 5H3TW 7004 151 AP2TN 7005 003 EL7X 7005 062 FK8GJ 7006 134 GM9ØCC 7001 224 H44/ 7005 122 DF5WA KH2D 7005 120 LX1DA 7001 215 PZ1DV 7006 105	5 13 NB	2MC 14030 2TN 14028 7KT 14006 1DX 14030 25A 14008 MM 14028 2CX 14033 7X 14014 5DD 14020 4/ 14003 F5WA 8VB 14008 1HZ 14004 9LTA 14025 1BB 14008 1SBR 14013 2AB 14006 1CC 14005 3ADH 14018 2BAI 14033 2BAI 14033 2B	0315 9 PA 0207 13 FL 1238 23 FL 0117 9 NH 1255 23 FL 0243 20 FL 0251 18 IL 2301 12 MT 0340 8 UT 1210 19 MA 0350 8 UT 2245 18 OH 0205 20 FL 1417 20 MA 0105 13 NB 0224 19 FL 0225 13 CA 0420 14 CA 0055 16 FL 0305 14 CA 0055 16 FL 0305 14 CA 1015 19 NB 0513 23 FL 2205 23 FL 2214 13 NH 0053 22 FL 0244 10 PA 1227 14 MA 1312 20 MA 0230 11 GA 0341 11 MI	5Z4FO 2104 8Q7JC 2103 9L1CM 2102 9L1US 2102 9L1US 2102 BY4RB 2102 EL7X 2101 SV9BAI 2101 TL8PS 2101 UI8GBK 2103 UI9ACQ 2101 UI9AWX 2102 YN/ 2100 SMØOIG ZD7KM 2102 5Z4FO 2124 9L1US 2132 9M2CW 2126 5Z4FO 2124 9L1US 2132 9M2CW 2126 422FN 2134 A22JP 2138 A45ZP 2131 HS1BV 2128 HZ1AB 2123 J37XC 2128 S92LB 2124 TJ/N3CRH 213 TL8JL 2134	40 2021 25 MA 32 2303 6 FL 26 0020 14 PA 24 2321 23 MA 26 0201 13 RI 10 2246 12 FL 12 2305 13 CO 19 1830 11 NH 14 2117 11 NH 35 0250 14 CA 18 0410 14 CA 26 1308 23 FL 27 1838 23 FL 27 1838 23 FL 27 1838 23 FL 27 1838 23 FL 27 2008 18 DE 26 0208 13 MT 41 1958 6 NY 85 1930 11 NY 15 1544 13 IN 83 1919 23 CA 80 1800 15 NY 87 1230 18 DE 845 2100 6 NY 87 1230 18 DE 845 2100 6 NY 87 1200 14 MS	FOØIGS 2833 H44SH 2855 HZ1AB 2855 SU1AL 2864 SV5TS 2855 T3ØJH 2856 TA5C 2855 TA5L 2856 TA5L 2856 TK5EP 2857 TZ6PS 2844 TZ6VV 2847 UF6QAZ 2856 V31DX 2855 V31DX 2855 V31DX 2855 V31DX 2855 V31DX 2855 V31DX 2856 V	27 1811 18 IL 27 0002 10 MI 25 1340 22 NJ 40 1310 18 NJ 31 0200 22 NJ 32 1406 12 MI 32 1406 12 MI 33 1350 18 NJ 34 140 18 PA 40 235 22 NJ 33 1356 11 OH 30 1752 19 CA 32 120 22 NJ 33 1356 11 OH 30 1752 19 CA 31 1355 18 NJ 32 1405 12 NJ 33 1355 15 NY 34 1310 22 NJ 35 1355 22 NJ 36 1310 22 NJ 37 1845 15 NY 38 1310 22 NJ 38 1310 22 NJ 39 1355 12 NJ 30 1751 18 NJ 31 1845 15 NY 32 1405 12 NJ 33 1355 12 NJ 34 1310 22 NJ 35 1355 22 NJ 36 1310 22 NJ 37 1845 15 NY 38 1310 22 NJ 38 1310 22 NJ 39 1355 12 NJ 30 1845 15 NY 30 1845 15 NY 31 1845 15 NY 31 1845 15 NY 32 130 22 NJ 33 1355 12 NJ 34 1310 22 NJ 35 1355 12 NJ 36 1310 22 NJ 37 1845 15 NY 38 1310 22 NJ 38 1310 22 NJ 39 1355 12 NJ 30 1845 15 NY
PZ1DV 3509 033 UA9UCO 3503 013 UC1AWZ 3501 023 V73AS 3503 123 XF1C 3501 015 75 Meters A92BE 3795 022 EA9IE 3794 053 J6LQC 3799 021 OH5SM * 3798 142 P29FS 3795 114 TL8WD 3797 233 TU2UI 3788 065 VS6VO 3798 143 ZS1DM 3789 043 40 Meters 3C1EA 7021 231 4K2OIL 7001 033 4K2OT 7002 141 4S7WP 7001 223 5H3TW 7004 151 AP2TN 7005 003 EL7X 7005 062 FK8GJ 7006 134 GM9ØCC 7001 224 H44/ 7005 122 DF5WA KH2D 7005 120 LX1DA 7001 215 PZ1DV 7006 105	5 13 NB	2MC 14030 2TN 14028 7KT 14006 1DX 14030 25A 14008 MM 14028 2CX 14033 7X 14014 5DD 14020 4/ 14003 F5WA 8VB 14008 1HZ 14004 1HZ 14008 1HZ 14008 1BR 14013 2AB 14008 3/KNØE 14030 1ZA 14026 1CT 14005 3/KNØE 14030 1ZA 14026 1CT 14005 9ADH 14018 9BAI 14018 9BAI 14018 9BAI 14018 9CR 14008 7CR 14008	0315 9 PA 0207 13 FL 1238 23 FL 0117 9 NH 1255 23 FL 0243 20 FL 0251 18 IL 2301 12 MT 0340 8 UT 1210 19 MA 0350 8 UT 2245 18 OH 0205 20 FL 1417 20 MA 0105 13 NB 0224 19 FL 0225 13 CA 0420 14 CA 0055 16 FL 0305 14 CA 1015 19 NB 0513 23 FL 2205 23 FL 2214 13 NH 0053 22 FL 0515 23 FL 0244 10 PA 1312 20 MA 0230 11 GA	5Z4FO 2104 8Q7JC 2103 9L1CM 2102 9L1US 2102 9L1US 2102 BY4RB 2102 EL7X 2101 SV9BAI 2101 TL8PS 2101 UI9AGBK 2103 UI9ACQ 2101 UI9AWX 2102 YN/ 2100 SMØOIG ZD7KM 2102 5Z4ED 2123 5Z4ED 2123 5Z4ED 2123 5Z4ED 2124 9L1US 2132 9M2CW 2126 422FN 2134 A22JP 2134 A45ZP 2131 HS1BV 2126 HZ1AB 2123 J37XC 2126 S92LB 2124 TJ/N3CRH 213 TL8JL 2134 TU2VE 2131	40 2021 25 MA 32 2303 6 FL 26 0020 14 PA 24 2321 23 MA 26 0201 13 RI 10 2246 12 FL 112 2305 13 CO 19 1830 11 NH 14 2117 11 NH 15 0250 14 CA 18 0410 14 CA 26 1308 23 FL 27 1838 11 MI 27 1838 23 FL 27 1838 23 FL 28 1207 8 MA 40 1915 11 MI 29 1831 13 NH 30 1919 11 NY 15 1544 13 IN 30 1300 15 NY 30 1300 15 NY 30 1300 15 NY 30 1300 15 NY 31 1919 23 CA	FOØIGS 2833 H44SH 2855 HZ1AB 2855 SU1AL 2864 SV5TS 2855 T3ØJH 2856 TA5C 2855 TA5L 2856 TA5L 2856 TK5EP 2857 TZ6PS 2844 TZ6VV 2847 UF6QAZ 2856 V31DX 2855 V31DX 2855 V31DX 2855 V31DX 2855 V31DX 2855 V31DX 2856 V	27 1811 18 IL 27 0002 10 MI 25 1340 22 NJ 36 1310 18 NJ 31 0200 22 NJ 32 1406 12 MI 32 1406 12 MI 33 1400 18 NJ 34 1250 18 NJ 35 1400 18 PA 36 1400 18 PA 37 0235 22 NJ 38 1400 18 PA 38 1400 18 PA 39 1356 11 OH 30 1752 19 CA 30 1752 19 CA 30 2200 18 MD 30 1755 18 NJ 31 1845 15 NY 31 130 22 NJ 32 1405 12 MI 34 1741 18 MD 35 1355 22 NJ 36 1355 18 NJ 37 1355 18 NJ 38 1310 22 NJ 38 1310 22 NJ 39 1355 18 NJ 30 1845 15 NY 41 1741 18 MD 42 1405 12 MI 44 1741 18 MD 44 2235 7 WV 40 1535 18 NJ

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Issue 527 - March 2, 1990 (Changes and hot info in boldface.)

	18 N6AMG/KH8 Mar. 29-Apr. 5	
Angilla - VP2E	VP2E ARRL SSB M/S	1523
Antarctica - Y9	Y99ANT to April 1991	1527
Antigua - V2	V29OA March 7-20	1527
Armenia - UG	UG6GG 14013 1500Z	1526
Bahrain - A9	A92BE 3793 0220Z	1527
Byelorussia - UC	UC1AWZ 3502 0230Z	1527
Cayman Is ZF	ZF2MD/ZF8 Mar. 17-24	1524
	ZF2OZ/ZF9 Feb. 26-Mar. 11	1525
Central African Rep.	TL8WD 3793 0340Z	I526
Easter Island - CE®	CEØFFD 28010 2300Z	1527
Eastern Kiribati	T32AW Mar. 21-28	1524
Franz Josef Land	4K2OT 7008/1230Z 'OIL 14005/	23Z
French Polynesia - FO	by AA6LF in April	I525
Gabon - TR	TR8CA 14205 0500Z	1525
Gambia - C5	C53GB 28480 1230Z	1527
Grenada - J3	Feb. 15-Mar. 7 K4LTA	1520
Guam - KH2	AHØF, JAØGZ Mar. 16-17	1526
	KH2D 7005 1200Z	1527
Hong Kong - VS	VS6VO 3798 1430Z	1527
India - VU	VU2AYB 3505 1300Z	1526
Ivory Coast - TU	TU2QQ 28512 16-1800Z	I526
Jan Mayen - JX	JX6DFA April 1-July 27	1525
	CEØZZZ Mar. 16-26 SSB	1523
Kenya - 5Z	5Z4FO 21240 1900Z Sun.	1527
Kirghizia - UM	UMØMO 7006 1200Z	1527
Liberia - EL	EL7X 21010/2245Z 28450/14Z	1527
Diodria 22	EL2CX 21032 1730Z	1526
	EL2DK EL2WK 3795 0545Z	1526
Lord Howe - VK9	by N6AMG April 5-12	1526
Dord Howe VIE	VK9LE Mar. 25-Apr. 8	1527
Marshall Is V7	V73AX 28495/22Z KX6EL 28490	
Watshan Is V	V73AS 3505 1200Z	1526
Mauritius - 3B	3B8CF 10105/0230Z 14034/0315Z	
Mayotte - FH	FH5EJ 14009 0300Z	1526
Micronesia - V6	V63AO 28507 2100Z	1527
Wilcionesia - Vo	V63AN V63GZ Mar. 9-15	1526
Mangalia IT	JT1BR 14011 01-0300Z	1526
Mongolia - JT	JT1BS 3502/15Z 14013/01Z	1527
Nanal ON	9N5CW, DX May 10-31	1523
Nepal - 9N	PJ6V Saba Is. ARRL SSB	1526
Netherland Antilles		
Nicaragua - YN	YN/SMØOIG 10105 2245Z YN3JG 3504 0400Z	1526
and the same that	1115JU 3504 0400Z	1526

JK1ZNB/JD1 WPX SSB

JG6CVO/JD1 Apr. 4-28

1522

1527

Oman - A4	A41JV A41JV 14010 00-0400Z	I526		
Pakistan - AP	AP2TN 14030/02Z 7007/00302	1527		
Papua New Guinea	P29PL 28002 2245 Sat.	I526		
Pitcairn - VR6	VR6JR 28500 1900Z	1525		
Reunion - FR	FR4FD 14005/0300Z 28003/14	30ZE		
Rwanda - 9X	9X5NH 3795 2245Z	I526		
St. Barthélemy - FJ	FJ/NØIMH Mar. 15-31	I521		
Saudi Arabia - HZ	HZ1AB 3506/0200Z 10M SSB	1330Z		
Senegal - 6W	6W6JX 3504 0545Z	I526		
Sierra Leone - 9L	9L1US 21300/20Z 28493/22452	ZI526		
South Orkneys - VP8	LU1ZA 14020/2330Z 21012/23	ZI527		
Sri Lanka - 4S	4S7WP 20M CW/12Z 7001/22	40Z		
Taiwan - BV	BV2DA 28010 23-0200Z	I526		
Tanzania - 5H	5H3TW 3795/0230 1832/03Z	I524		
United Arab Emirates	A61AD Mar. 23-28	1524		
Vietnam - 3W	3W3RR 14005, 3501 15Z	1527		
Walvis Bay - ZS9	ZS9S 14180 05Z 28610 1630Z	1526		
	ZS9A 28610 15-1600Z Sun.	I527		
West Malaysia - 9M2	9M2AX 3505 1430Z	I526		
Western Sahara - SØ	SØ1LNDX Mar. 18-23	1527		
Western Samoa - 5W	by N6AMG Mar. 29-Apr. 5	I526		
Zaire - 9Q	9Q5TE 14220 0400Z	1527		
DX Activities and Contests				
Date	Event or Activity	Info		
Mar. 3-4	ARRL SSB Test	OST		
Mar. 9-11	Japan International Test	OST		
Mar. 24-25	CQ WPX SSB Test	CQ		
	Contributors			

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